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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/739,982	12/18/2000	Bridget D. Kimball	18926-003230US	4299

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EXAMINER

SON, LINH L D

ART UNIT	PAPER NUMBER
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2135

DATE MAILED: 05/21/2004

3

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/739,982

Applicant(s)

KIMBALL ET AL.

Examiner

Linh LD Son

Art Unit

2135

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 18 December 2000.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-18 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-18 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date <u>2</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1-18 are rejected under 35 U.S.C. 102(e) as being anticipated by Shear et al (US/6157721).
3. As per claim 1, Shear et al disclose the "Systems and Methods Using Cryptography to Protect Secure Computing Environments" invention, which includes a method for distributing information to a plurality of conditional access receivers (Processing Environment, Fig 2, 108) with a plurality of different signature checking capabilities (Col 9 lines 58-65), the method comprising: generating a first signature over the information; generating a second signature over the information; sending the first and second signatures to the plurality of conditional access receivers (Col 8 lines 15-30 and Col 9 lines 51-65); and sending the information to the plurality of conditional access receivers (Col 9 lines 51-65, Col 15 lines 13-23, and Col 16 lines 1-10).

4. As per claims 2, 8, and 10, the method for distributing information to the plurality of conditional access receivers with the plurality signature checking capabilities as recited in claim 1, further comprising: receiving the first signature associated with the information at the conditional access receiver; receiving the second signature associated with the information at a conditional access receiver (Col 15 lines 40-65 and Col 16 lines 1-37); determining a signature checking capability of the conditional access receiver; choosing one of the first and second signatures; calculating a third signature over the information; and comparing the third signature to one of the first and second signatures (Col 14 lines 48 to Col 15 line 6).
5. As per claims 3, 12, and 16, the method for distributing information to the plurality of conditional access receivers with the plurality of different signature checking capabilities as recited in claim 1, further comprising: generating a checksum over at least the information; and sending the checksum to the plurality of conditional access receivers (Col 9 line 53 and Col 10 lines 4-30). The digital "seal of approval" also include the checksum information of the load module (Col 10 lines 4-16) so the authority can analyze and approve the module.
6. As per claim 4, the method for distributing information to the plurality of conditional access receivers with the plurality of different signature checking capabilities as recited in claim 1, wherein the sending the first and second

signatures and sending the information comprise sending the same message
(Col 15 lines 1-8).

7. As per claim 5, the method for distributing information to the plurality of conditional access receivers with the plurality of different signature checking capabilities as recited in claim 1, wherein: the plurality of conditional access receivers includes as a first and second conditional access receivers; the first conditional access receiver uses a first signature algorithm different from a second signature algorithm used by the second conditional access receiver (Col 15 line 65 to Col 16 line 21).
8. As per claim 6, the method for distributing information to the plurality of conditional access receivers with the plurality of different signature checking capabilities as recited in claim 1, wherein the information comprises software object (Col 18 lines 45-67).
9. As per claim 7, the method for distributing information to the plurality of conditional access receivers with the plurality of different signature checking capabilities as recited in claim 1, wherein the information comprises authorization information (Col 9 lines 52-67 and Col 16 lines 45-67).

10. As per claim 9, same rejection basis on claim 1 applies and sending the message to the plurality of conditional access receivers (Col 8 lines 40-67).
11. As per claim 11, the method for distributing information to the plurality of conditional access receivers with the plurality of different signature checking capabilities as recited in claim 8, wherein the third signature corresponds to a security level that excludes one or more of the plurality of conditional access receivers from the security level (Col 16 lines 45 –67)
12. As per claim 14, Shear et al disclose a computer message stream embodied in at least one carrier wave for providing for authentication of the computer message stream, comprising: a data segment comprising an object; a first signature segment comprising a first signature over the data segment; and a second signature segment comprising a second signature over the data code segment (Col 16 lines 11-21).
13. As per claim 15, Shear et al disclose a computer message stream embodied in at least one carrier wave for providing for authentication of the computer message stream as recited in claim 14, further comprising an authorization segment comprising authorization information for the object (Col 9 lines 52-67).
14. As per claim 17 and 18, Shear et al disclose a computer message stream embodied in at least one carrier wave for providing for authentication of the


computer message stream as recited in claim 14, wherein the data segment is sent at a different time than at least one of the first and second signature segments (Col 13 lines 50-60); and the data segment is coupled to a first carrier wave and at least one of the first and second signature segments is coupled to a second carrier wave (Col 13 lines 50-60).

Conclusion

15. Any inquiry concerning this communication from the examiner should be directed to Linh Son whose telephone number is (703)-305-8914.
16. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor Kim Y. Vu can be reached at (703)-305-4393. The fax numbers for this group are (703)-872-9306 (official fax). Any inquiry of general nature or relating to the status of this application or proceeding should be directed to the group receptionist whose telephone number is (703)-305-9600.

LLS

Patent Examiner


KIM VU
TECHNOLOGY CENTER 2100